AMENDMENTS TO THE CLAIMS

Claims 1-10 (Canceled)

Claim 11 (Currently Amended): A reactor which is divided into a plurality of sections ~~(R1, R2, R3, R4),~~ which are separated from one another by dividing walls ~~(2, 2', 2'')~~ each having at least one orifice ~~(3, 3', 3'')~~, and which has a nozzle ~~(9)~~ extending into the first section ~~(R1)~~, means for feeding in and removing the substances involved and means for controlling the temperature in the sections ~~(R1, R2, R3, R4)~~.

Claim 12 (Currently Amended): A reactor as claimed in claim 11, wherein the dividing walls ~~(2, 2', 2'')~~ each have an orifice ~~(3, 3', 3'')~~ which is present substantially in the center of the dividing wall.

Claim 13 (Currently Amended): A reactor as claimed in claim 11 ~~or 12~~, wherein the nozzle ~~9 used~~ used is a jet nozzle, mixing nozzle or binary nozzle.

Claim 14 (Currently Amended): A reactor as claimed in ~~any of claims 11 to 13~~ claim 11, wherein an annular tube ~~(6)~~ having a plurality of outlet orifices and a line ~~(5)~~ for feeding in a starting material is provided in the region of the bottom in the first section ~~(R1)~~.

Claim 15 (Currently Amended): A reactor as claimed in ~~any of claims 11 to 14~~ claim 11, wherein the volume of the first section ~~(R1)~~ is greater than that of the remaining sections and accounts for from 25 to 50% of the total reactor volume.

Claim 16 (Currently Amended): A reactor as claimed in ~~any of claims 11 to 15~~ claim 11, wherein the first and/or second section ~~(R1, R2)~~ is equipped with static mixing elements.

Claim 17 (Currently Amended): A reactor as claimed in ~~any of claims 11 to 16~~ claim 11, wherein a nozzle for mixing the content of the second section ~~(R2)~~ is provided and is arranged in such a way that its outlet orifice is present in the orifice ~~(3)~~, roughly in the plane of the dividing wall ~~(2)~~.